AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing Of Claims:

1-10 (Canceled)

11. (New) An afterburner for afterburning a residual gas from at least one of a reforming process and a fuel cell process, comprising:

at least one nozzle to meter fuel and the residual gas into a combustion chamber;

at least one device for providing an air supply; and

a heat-resistant, open-pore ceramic foam for at least partially filling the combustion chamber.

12. (New) The afterburner as recited in Claim 11, wherein:

the afterburner is for a chemical reformer intended for procurement of hydrogen.

13. (New) The afterburner as recited in Claim 11, wherein:

the ceramic foam includes silicon carbide.

14. (New) The afterburner as recited in Claim 11, wherein:

the ceramic foam includes open pores via reticulation.

15. (New) The afterburner as recited in Claim 11, wherein:

the ceramic foam can be heated electrically.

16. (New) The afterburner as recited in Claim 11, wherein:

the ceramic foam is in good heat-conducting contact with at least one part of a wall of the combustion chamber.

17. (New) The afterburner as recited in Claim 11, further comprising:

a catalytic layer for at least partially covering the ceramic foam.

18. (New) The afterburner as recited in Claim 17, wherein:
the catalytic layer includes platinum.

19. (New) The afterburner as recited in Claim 11, further comprising:
an ignition device.

20. (New) The afterburner as recited in Claim 19, wherein:
the ignition device includes one of an electric glow filament and a glow plug.

21. (New) The afterburner as recited in Claim 19, wherein:
the ignition device is one of installed and formed one of:
between the ceramic foam and the at least one nozzle, and
in the ceramic foam.

22. (New) The afterburner as recited in Claim 11, wherein:
the at least one nozzle includes one of a swirl nozzle and a multi-orifice nozzle.